

Claims

1. A solar module comprising
 - a) at least one solar cell,
 - b) a front side composed of transparent polyurethane,
and
 - c) a rear side.
- 5 2. The solar module of Claim 1 in which the rear side is composed of transparent polyurethane.
- 10 3. The solar module of Claim 1 in which the rear side is composed of plastic, glass or ceramic.
4. The solar module of Claim 1 in which the rear side is composed of opaque polyurethane.
- 15 5. The solar module of Claim 4 in which the opaque polyurethane contains a filler.
6. The solar module of Claim 5 in which the filler is selected from the group consisting of chalk, glass platelets, silicates and combinations thereof.
- 20 7. The solar module of Claim 1 in which the front side has a textured surface.
8. The solar module of Claim 1 in which the rear side is constructed in the form of cooling fins.
- 25 9. A process for producing the solar module of Claim 1 comprising applying polyurethane to the solar cells by a reaction injection molding process, a casting process, an injection molding process or a combination thereof.
10. The process of Claim 9 in which the solar cells are secured to a rear side of the module before transparent polyurethane is injected or cast on the front side.
- 30 11. The process of Claim 9 in which the rear side is composed of a plastic film or a composite plastic film which has been thermoformed

together with the solar cells in a manner such that the solar cells are secured to the rear side of the module by the thermoforming process.

100042365 • 041402